IN THE CLAIMS:

Please amend the claims as follows:

Claim 1. (Currently Amended).

A process for the wet chemical treatment of semiconductor wafers with treatment liquids in baths, comprising consisting of the steps of

firstly treating the semiconductor wafers

in a bath with an aqueous HF solution only containing HF and
optionally HCl and optionally a surfactant;

then treating the semiconductor wafers in a bath with an aqueous O₃ solution only containing O₃ and optionally HF; and

then treating the semiconductor wafers in a bath with an aqueous HCl solution $\frac{1}{1}$ containing HCl and optionally 0_3 ;

whereby these treatment steps form a treatment sequence B_2 , which avoids rinsing with water or another treatment liquid and the addition of fresh water or other liquids to the treatment baths.

Claim 2. (Previously Presented).

The process as claimed in claim 1,

wherein the treatment sequence B_2 is preceded by a treatment B_1 of the semiconductor wafers with an aqueous SC-1 solution.

Claim 3/ (Original).

The process as claimed in claim 1,

wherein the treatment sequence B_2 is followed by a treatment B_3 comprising drying the semiconductor wafers.

Claim A. (Original).

The process as claimed in claim 3,

wherein the treatment of the semiconductor wafers is sequenced according to the term m^* (B₁ + B₂)+ B₃,

m being an integer number and the treatment B_1 and the treatment sequence B_2 being carried out in succession, and

this taking place m times, before the drying treatment B_3 is performed.

Claim 5. (Original).

The process as claimed claim 1,

wherein in treatment sequence B_2 , the aqueous HF solution contains HF in a concentration of from 0.001% to 2% by weight and

optionally HCl in a concentration of up to 2% by weight and optionally a surfactant; and

wherein all percents by weight are based upon the total solution weight.

Claim & (Original).

The process as claimed in claim 1,

wherein in treatment sequence B_2 , the aqueous O_3 solution contains O_3 in a concentration of from 1 ppm to 30 ppm and is optionally exposed to megasonic waves.

Claim 7. (Original).

The process as claimed in claim 1,

wherein the treatment liquid used last in the treatment sequence B_2 contains ozone and is optionally exposed to megasonic waves.

Claim 8/ (Original).

The process as claimed in claim 3,

wherein the drying treatment is carried out using a step selected from the group consisting of centrifuging, using hot water, using isopropanol, and using marangoni principle.

Claim 9. (Previously Presented).

The process as claimed in claim 2,

wherein in treatment B_1 the aqueous SC-1 solution contains a liquid selected from the group consisting of NH_4OH and H_2O_2 , and TMAH (= tetramethylammonium hydroxide) and H_2O_2 .

Claim 10 (Cancelled).

Claim 12. (Currently Amended).

A process for the wet chemical treatment of semiconductor wafers with treatment liquids in baths, comprising consisting of the steps of

firstly treating the semiconductor wafers in a bath with an aqueous HF solution only containing HF and optionally HCl and optionally a surfactant;

then treating the semiconductor wafers in a bath with an aqueous O_3 solution only containing O_3 and optionally HF; and

then treating the semiconductor wafers in a bath with an aqueous HCl solution $\frac{1}{2}$ containing HCl and optionally 0_3 with exposure to megasonic waves,

whereby these treatment steps form a treatment sequence B_2 , which avoids rinsing with water or another treatment liquid and the addition of fresh water or other liquids to the treatment

baths.

Please add new claims 12 to 15 as follow:

Claim 12. (New).

A process for the wet chemical treatment of semiconductor wafers with treatment liquids in baths, comprising the steps of

firstly treating the semiconductor wafers in a bath with an aqueous HF solution containing HF and optionally HCl and optionally a surfactant;

then treating the semiconductor wafers in a bath with an aqueous O_3 solution containing O_3 and optionally HF; and

then treating the semiconductor wafers in a bath with an aqueous HCl solution containing HCl and optionally O_3 ;

whereby these treatment steps form a treatment sequence $B_2\,;$ and

circulating the treatment liquids of said baths by taking a part from each of said baths, filtering and returning the part to the corresponding treatment bath.

Claim 13. (New).

A process for the wet chemical treatment of semiconductor wafers with treatment liquids in baths, comprising the steps of

firstly treating the semiconductor wafers in a bath with an aqueous HF solution containing HF and optionally HCl and optionally a surfactant;

then treating the semiconductor wafers in a bath with an aqueous O_3 solution containing O_3 and optionally HF; and

then treating the semiconductor wafers in a bath with an aqueous HCl solution containing HCl and optionally O3 with exposure to megasonic waves;

whereby these treatment steps form a treatment sequence B_2 ; and

circulating the treatment liquids of said baths by taking a part from each of said baths, filtering and returning the part to the corresponding treatment bath.

Claim 14. (New).

A process for the wet chemical treatment of semiconductor wafers with treatment liquids in baths, comprising the steps of

firstly treating the semiconductor wafers in a bath with an aqueous HF solution containing HF and optionally HCl and optionally a surfactant;

then treating the semiconductor wafers in a bath with an

aqueous O3 solution containing O3 and optionally HF; and

then treating the semiconductor wafers in a bath with an aqueous HCl solution containing HCl and optionally O_3 ; and

circulating the treatment liquids of said baths by taking a part from each of said baths, filtering and returning the part to the corresponding treatment bath;

whereby these treatment steps form a treatment sequence B_2 , which avoids rinsing with water or another treatment liquid and the addition of fresh water or other liquids to the treatment baths.

14 Claim 15. (New).

A process for the wet chemical treatment of semiconductor wafers with treatment liquids in baths, comprising the steps of

firstly treating the semiconductor wafers in a bath with an aqueous HF solution containing HF and optionally HCl and optionally a surfactant;

then treating the semiconductor wafers in a bath with an aqueous O_3 solution containing O_3 and optionally HF; and

then treating the semiconductor wafers in a bath with an aqueous HCl solution containing HCl and optionally O_3 with exposure to megasonic waves; and

circulating the treatment liquids of said baths by taking a

part from each of said baths, filtering and returning the part to the corresponding treatment bath;

whereby these treatment steps form a treatment sequence B_2 , which avoids rinsing with water or another treatment liquid and the addition of fresh water or other liquids to the treatment baths.